# INSTALLATION INSTRUCTIONS

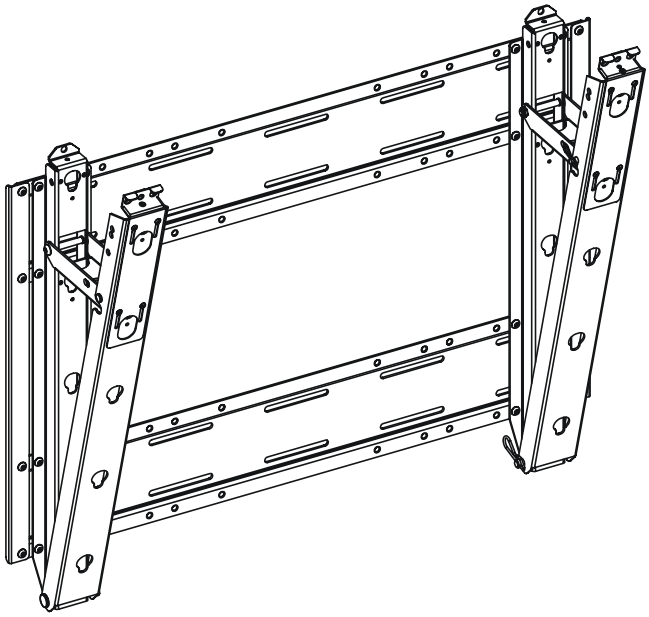
# HEAVY DUTY TILT WALL MOUNT

# Model: PPH-2000

Specifications:

- Accomodates Akira and Orion 84" displays without interface bracket; accomodates other large flat panel displays with optional interface bracket.

  **NOTE:** Interface bracket, if required, will result in additional installation depth. Contact Chief for details.
- Designed for installation on dual wood studs (16" or 24" on center).
- Positive tilt locks at 0°, 5°, 10°, and 15°.
- Weight capacity of 250 lbs (113 kg).



## BEFORE YOU BEGIN

**CAUTION:** To prevent damage to your display and this unit, which could affect or void the factory warranty, thoroughly study all instructions and illustrations before installation. Pay particular attention to the Warnings and Cautions in this document.

- If you have any questions about this installation, contact Chief Manufacturing at 1-800-582-6480 or 952-894-6280.

CHIEF® Ideas Supporting Ideas

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01/06

## IMPORTANT WARNINGS AND CAUTIONS!

**WARNING:** A WARNING alerts you to the possibility of serious injury or death if you do not follow the instructions.

**CAUTION:** A CAUTION alerts you to the possibility of damage or destruction of equipment if you do not follow the corresponding instructions.

**WARNING:** It is the installer's responsibility to make sure the structure to which this unit is attached can support five times the combined weight of all equipment. Reinforce the structure as required before installing the unit. Failure to provide adequate structural strength for this unit can result in serious personal injury or damage to equipment!

**WARNING:** It is the installer's responsibility to make sure all components are properly assembled and installed using the instructions provided. Failure to follow instructions can result in serious personal injury or damage to equipment!

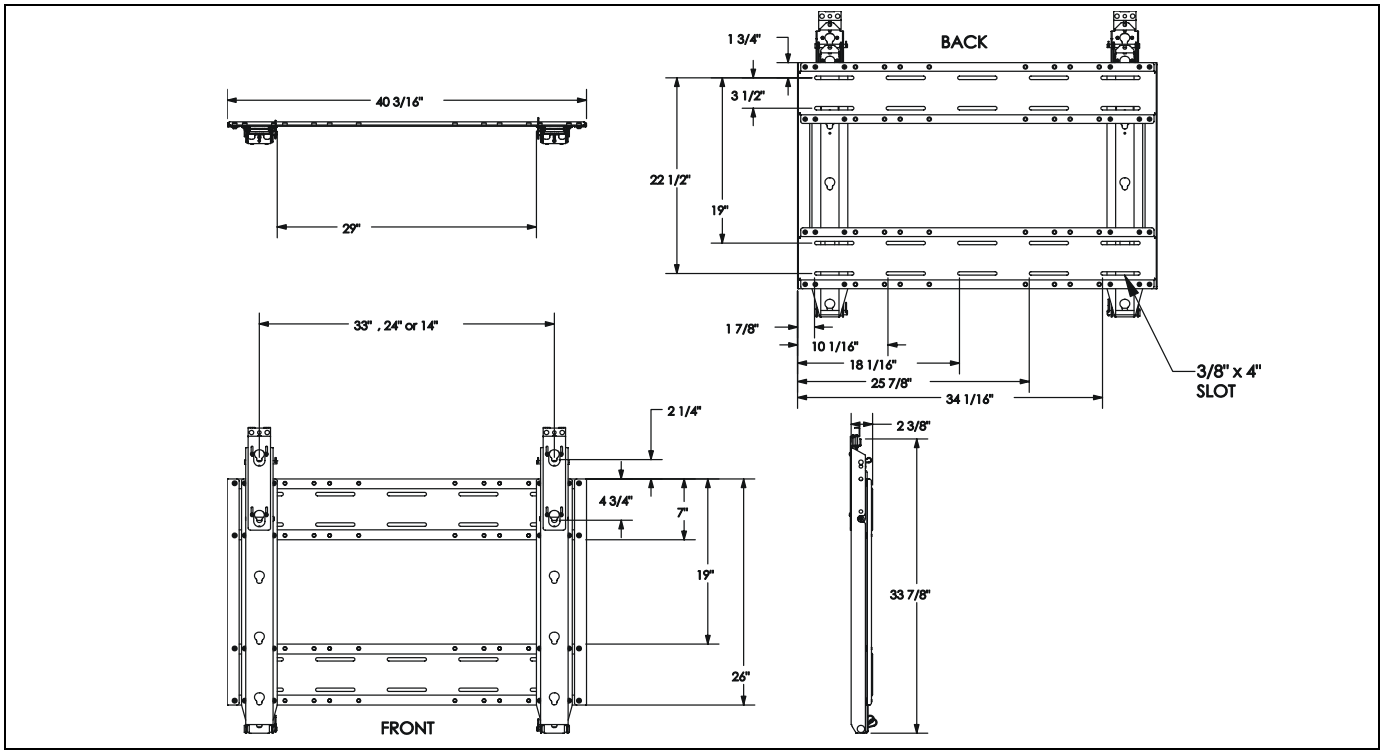
**WARNING:** It is the installer's responsibility to make sure the combined weight of the display, mount, accessories, and any other attached equipment must not exceed 250 lbs (113 kg), the maximum support weight of this unit. Exceeding the maximum support weight can result in serious personal injury or damage to equipment!

**WARNING:** Make sure the latches securing the display are fully closed at all times except when removing or installing the display. The latches must be fully closed when installing or removing cables from the display.

**WARNING:** Watch for pinch points. Do not put your fingers between movable parts.

**CAUTION:** Check the unit for shipping damage before you begin the installation.

## DIMENSIONS



## TOOLS REQUIRED FOR INSTALLATION

- Drill and 7/32" drill bit
- 13mm wrench
- 1/2" wrench
- Phillips screwdriver, #2
- M5 Hex Key (provided)
- 3/16" Hex Key (provided)
- 5/32" Hex Key (provided)

**NOTE:** Other tools may be required depending on your method of installation.

## PARTS

Unpack carton, inspect and verify contents (See Figure 1). Read installation instructions completely. If any listed parts are missing or damaged, contact Chief Customer Service at 1-800-582-6480.

**Table 1: Parts**

| Item | Description | Qty |
|---|---|---|
| 10 | PLATE, Wall | 2 |
| 20 | BRACKET, Static | 2 |
| 30 | ARM, Tilt (long) | 2 |
| 40 | SUPPORT, Side | 2 |
| 50 | LATCH | 2 |
| 60 | ARM, Tilt (short) | 2 |

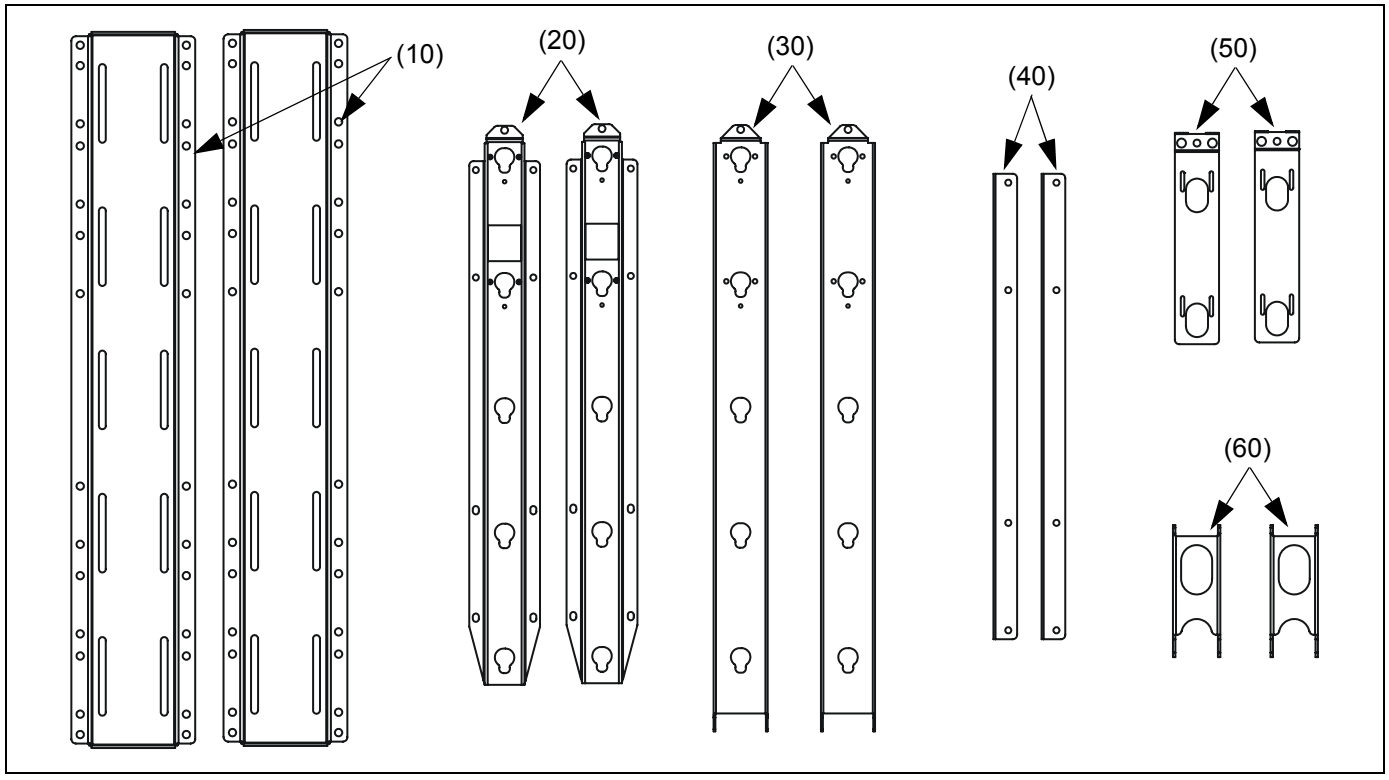



**Figure 1: Parts**

**Table 2: Parts (Hardware)**

| Item | Description | Qty |
|---|---|---|
| 70 | SPACER, 0.194" ID x 0.375" OD x 0.032" long | 8 |
| 80 | SCREW, Button Head Cap, 10-24 x 1/2" | 8 |
| 90 | SCREW, Phillips Pan Machine, 10-24 x 1-1/2" | 2 |
| 100 | SCREW, Button Head Cap, M8-1.25 x 25mm | 6 |
| 110 | BUTTON, Mounting | 6 |
| 120 | WASHER, Flat, Machine, M8 | 6 |
| 130 | WASHER, Lock, Split, M8 | 6 |
| 140 | NUT, Hex, Finished Standard, M8 | 6 |
| 150 | SCREW, Button Head Cap, 5/16"-18 x 1/2" | 24 |
| 160 | PIN, Clevis, 1/2" x 3-1/2" | 2 |
| 170 | PIN, Clevis, 3/8" x 3-1/2" | 2 |
| 180 | SCREW, Button Head Cap, 3/8"-16 x 3" | 2 |
| 190 | WASHER, Shoulder, 3/8" ID x 3/16" long | 8 |
| 200 | NUT, Lock, Nylok Short, 3/8"-16 | 2 |
| 210 | SPACER, 0.5" ID x 0.775" OD x 0.25" long | 4 |
| 220 | PIN, Cotter, 1-5/8" long | |
| 230 | PIN, Cotter, 2-9/16" long | |
| 240 | KEY, Hex, 7/32" (very slightly larger than 250) | 1 |
| 250 | KEY, Hex, M5 (very slightly larger than 260) | 1 |
| 260 | KEY, Hex, 3/16" | 1 |
| 270 | KEY, Hex, 1/8" | 1 |
| | BOLTS, Hex Head Lag, 5/16" x 2-1/2" (Required, not supplied) | 8 |
| | WASHER, Flat, Machine, 5/16" (Required, not supplied) | 8 |

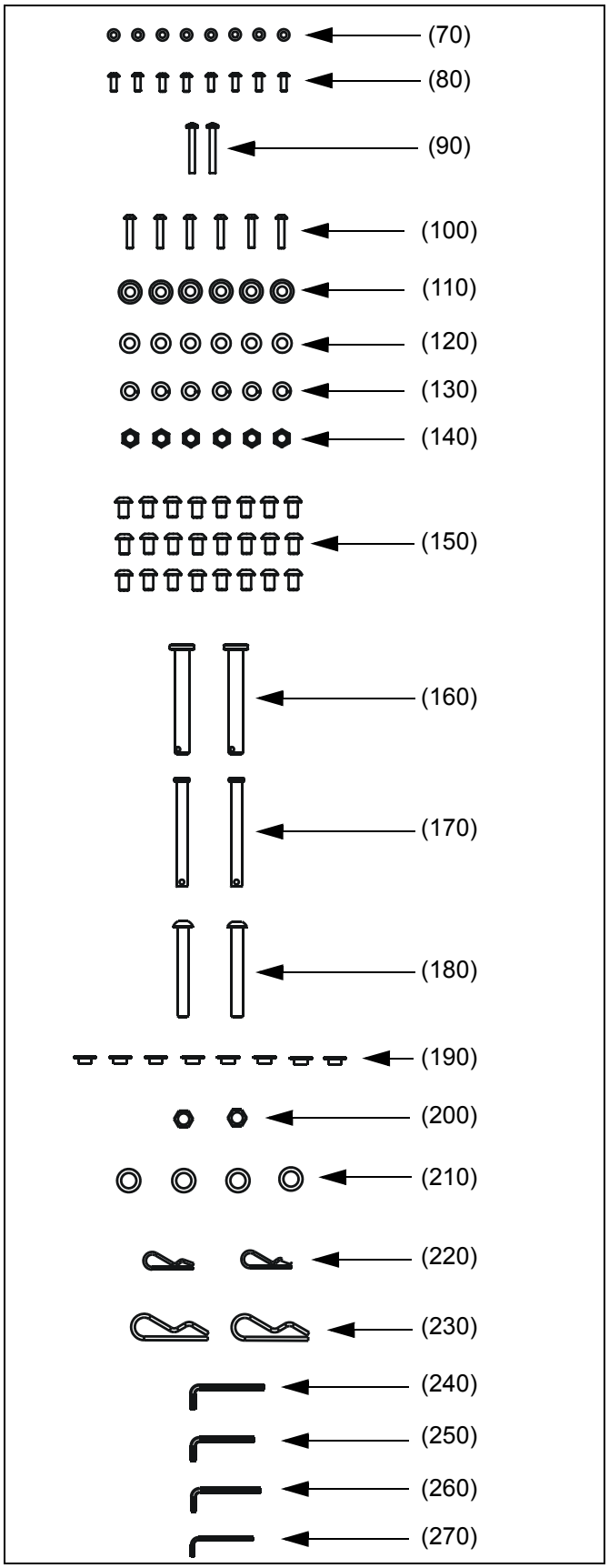



**Figure 2: Parts (Hardware)**

## ASSEMBLY AND INSTALLATION

**NOTE:** Read the Warnings and Cautions on page 2.

### INSTALL MOUNTING BUTTONS

Installation of the mounting buttons is dependent on your specific display. Three options are provided:

- Akira 84" and Orion 84" displays
- Modular 84" displays
- Other large flat panel displays

#### AKIRA 84" AND ORION 84" DISPLAYS

1. Using key (250), insert screw (100) through button (110) and install into threaded mounting hole on back of display (See Figure 3). Tighten securely.
2. Repeat for remaining five buttons.

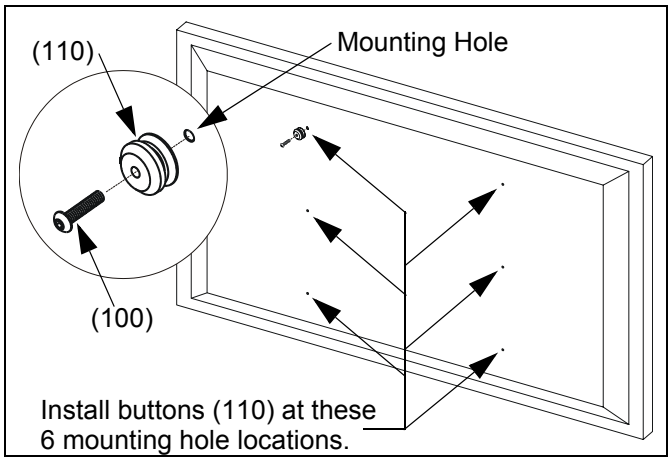



**Figure 3: Akira 84" and Orion 84" Mounting Button**

#### MODULAR 84" DISPLAYS

**NOTE:** Modular displays are four independent displays attached together within a single frame. The assembly performs as a single display.

1. Insert screw (100) through button (110) and frame on back of modular display (See Figure 4)(See Figure 5). Using key (250) and 13 mm wrench, install washer (120), washer (130), and nut (140). Tighten securely.
2. Repeat for remaining five buttons.

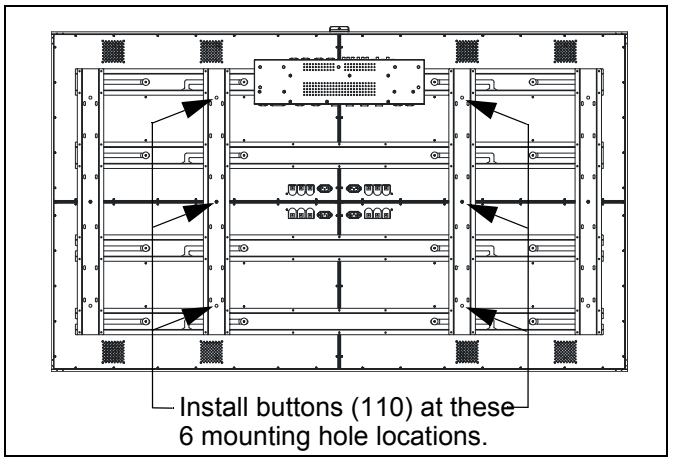



**Figure 4: Modular Display Frame**

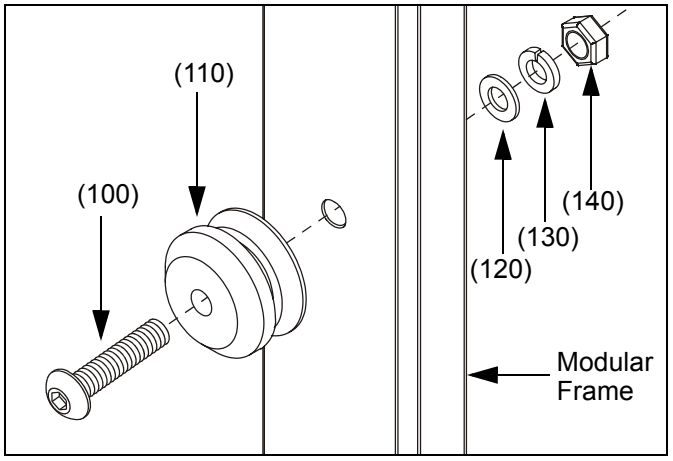



**Figure 5: Modular 84" Mounting Button**

#### OTHER LARGE FLAT PANEL DISPLAYS

1. Install the optional interface bracket to display according to the instructions provided with the interface bracket.

**NOTE:** Mounting buttons are pre-installed on optional interface bracket. PSH-2000 items (100) through (140), and key (250)(See Figure 1), will not be used with optional interface bracket.

## ASSEMBLE TILT ARM

1. Using key (270), loosely install screws (80) through latch (50) and spacers (70) into threaded holes in arm (30) (See Figure 6). Ensure latch (50) is installed on the upper end of arm (30).

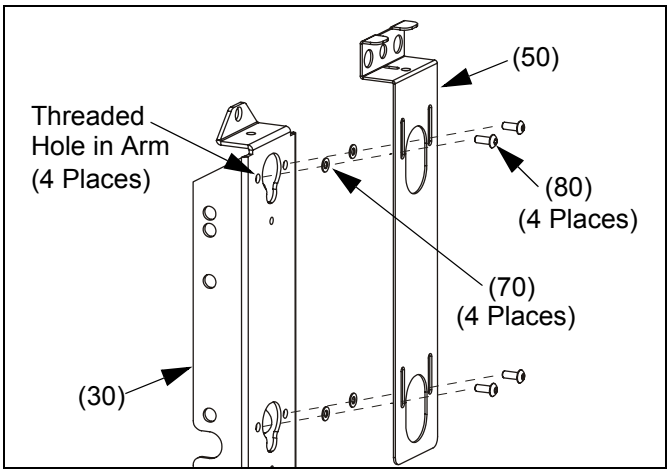



**Figure 6: Latch Assembly**

2. Repeat for remaining arm (30).
3. Tighten screws (80) only as required to keep latches (50) from freely slipping on arm (30). Latches are designed to slide; do not overtighten screws (80).
4. Slide latch (50) to fully open (raised) position.
5. Using Phillips screwdriver, install screw (90) through slotted hole in latch (50) into threaded hole in *arm (30)* (See Figure 7). Tighten only as required to take up slack; overtightening will close latch preventing mounting button installation.
    - If latch begins to close, loosen screw (90) and pull latch (50) to open position.

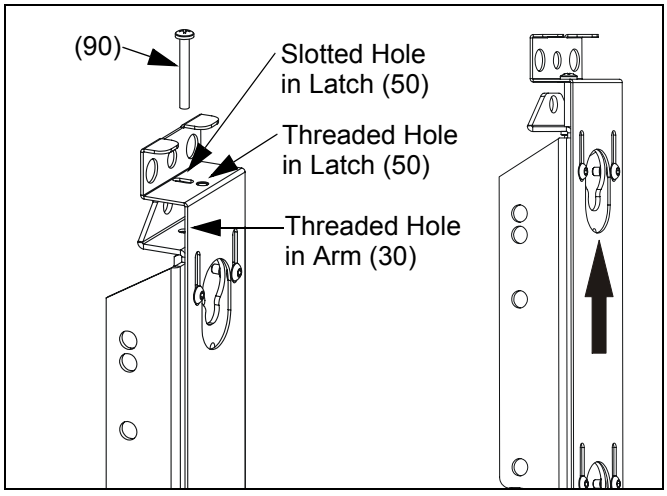



**Figure 7: Open Latch**

## ASSEMBLE SIDE SUPPORTS

1. Using key (260), loosely install support (40) to plate (10) with screws (150) (See Figure 8). Ensure lip of support (40) covers edge of plate (10).
2. Repeat for other 3 corners.
3. Once all screws (150) are installed, tighten securely.

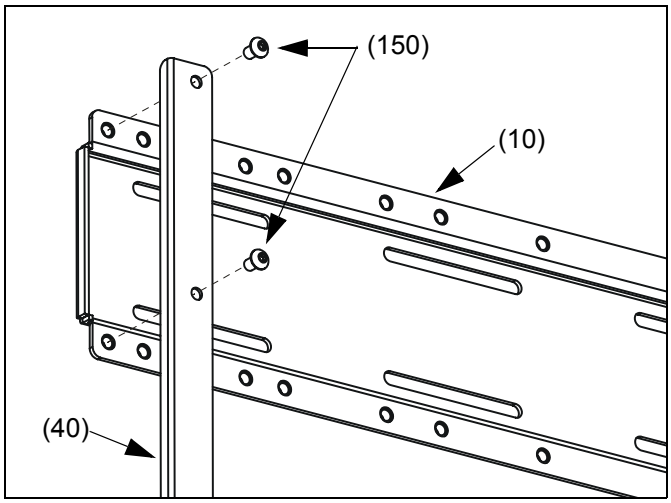



**Figure 8: Side Support Assembly**

## INSTALL MOUNT TO WALL

1. Determine approximate mounting location, keeping in mind the display size.

**WARNING:** The mount must be installed on two or three wood studs (or other equivalent vertical or horizontal supporting framework). Do not mount to single wood studs. Failure to properly install unit can result in serious personal injury or damage to equipment!

2. Use a stud sensor to locate applicable wood studs. Mark locations with a pencil.
3. Level mount at desired height per one of the configurations below:

**NOTE:** Either configuration below provides ± 2" of lateral shift.

- 16" on center studs: The mount is approximately centered between two or three studs as shown (See Figure 9).
- 24" on center studs: The mount is offset to the left or right of center between two studs as shown (See Figure 10).

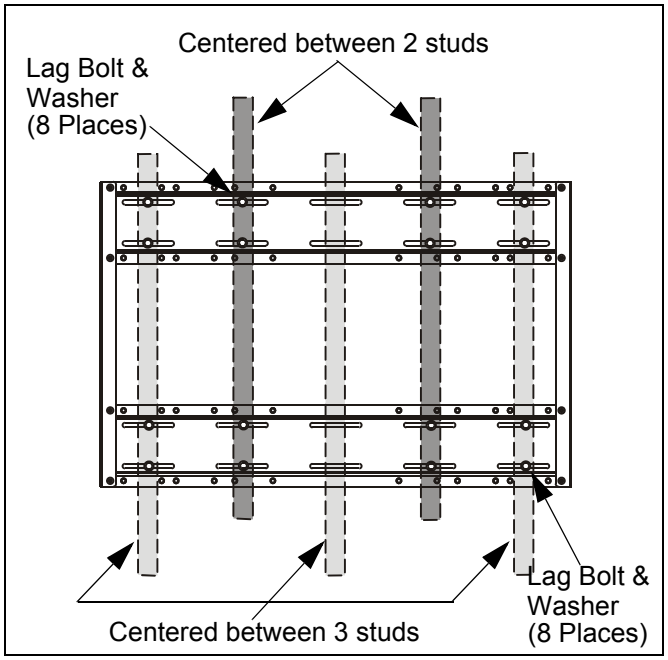



**Figure 9: 16" On Center Stud Installation**

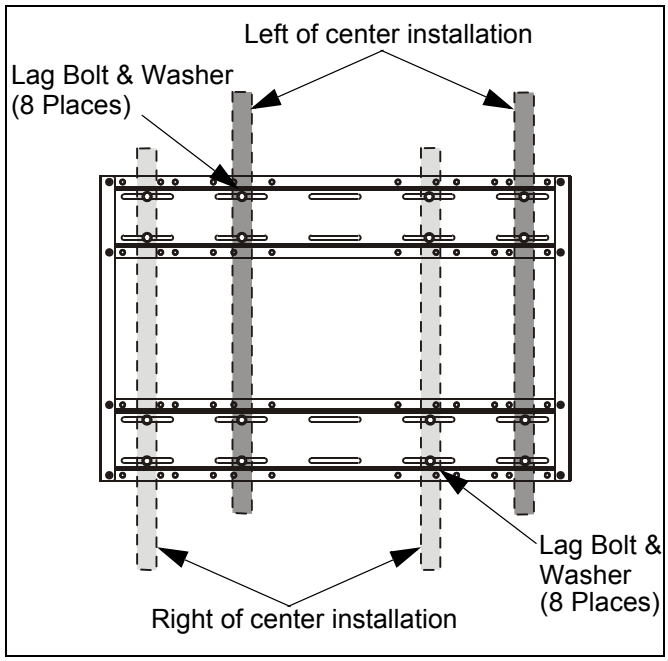



**Figure 10: 24" On Center Installation**

4. Using mount as a template, mark the location of the pilot holes. Ensure the following:
   - Marks are in the center of wood studs.
   - 8 pilot holes are marked (one in each slot).

**NOTE:** For 16" on center, 3 stud installation: Lag bolts and washers on center stud are optional.

5. Drill pilot holes using a 7/32" drill bit. Ensure pilot holes are straight.
6. Using 1/2" wrench, install eight 5/16" x 2 ½" lag bolts and eight 5/16" washers through mounting holes and into pilot holes. Tighten all lag bolts.

**NOTE:** Lag bolts and washers are not supplied.

## INSTALL STATIC BRACKETS

### AKIRA 84", ORION 84", AND MODULAR 84" DISPLAYS

1. Using key (260), loosely install brackets (20) to plates (10) with screws (150) (See Figure 11). Ensure the following:
   - Brackets (20) are installed to outside set of mounting holes, closest to supports (40).
   - Brackets (20) are installed so that square cut outs are towards top of mount.
2. Tighten all 16 screws (150) securely.

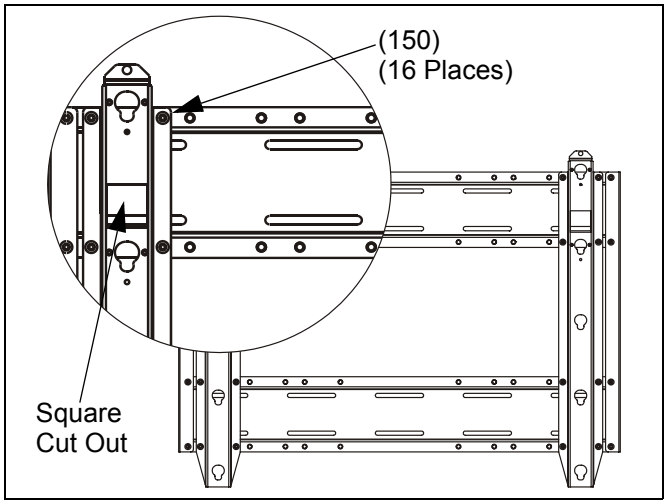



**Figure 11: Installation on Outside Mounting Holes**

### OTHER LARGE FLAT PANEL DISPLAYS

1. Determine *horizontal* dimension between mounting buttons on back of display (or interface bracket, if required) (See Figure 12).

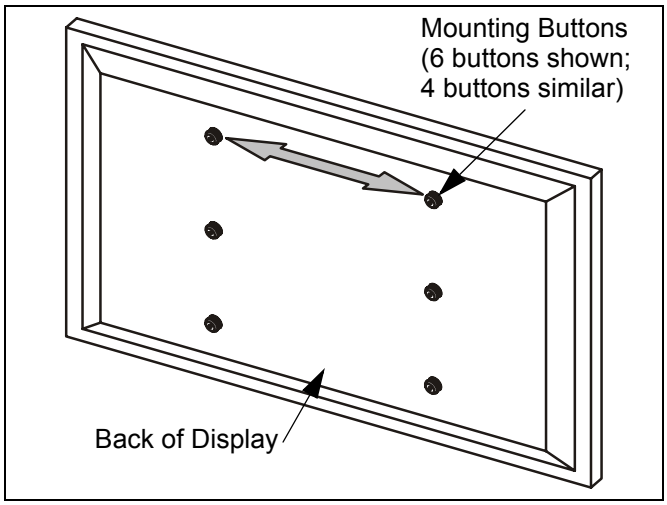



**Figure 12: Horizontal Dimension**

2. Using key (260), loosely install brackets (20) to plates (10) with screws (150) according to dimension noted in previous step. Ensure that brackets (20) are installed so that square cut outs are towards top of mount.
   - 14" horizontal dimension: Install brackets (20) to inside set of mounting holes, closest to center of mount (See Figure 13).
   - 24" horizontal dimension: Install brackets (20) to middle set of mounting holes (See Figure 14).
   - 33" horizontal dimension: Install brackets (20) to outside set of mounting holes, closest to supports (40) (See Figure 11).
3. Tighten all 16 screws (150) securely.

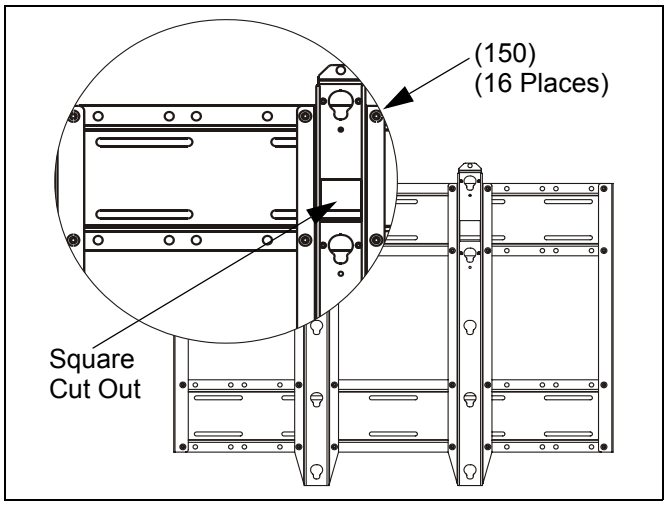



**Figure 13: Installation on Inside Mounting Holes**

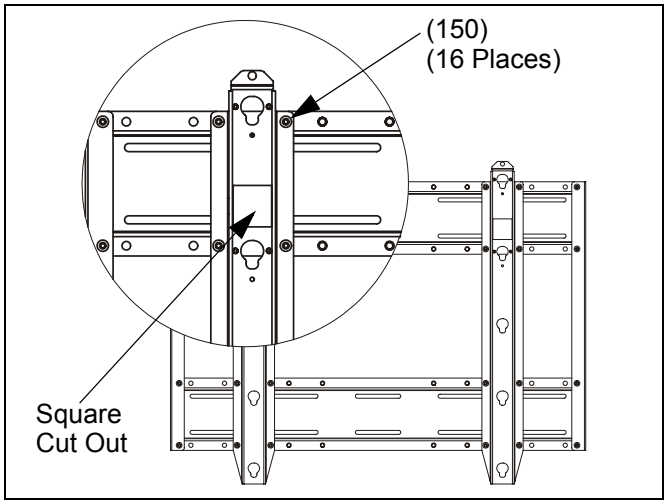



**Figure 14: Installation on Middle Mounting Holes**

## ATTACH TILT ARMS TO STATIC BRACKET

1. Insert screw (180) through arm (60), washer (190), bracket (20), washer (190), and arm (60). Install nut (200). Using key (240), tighten only as required to take up slack; overtightening will prevent arm (60) from freely swinging on bracket (20) (See Figure 15).

**NOTE:** Washers (190) are nested between bracket (20) and arm (60).

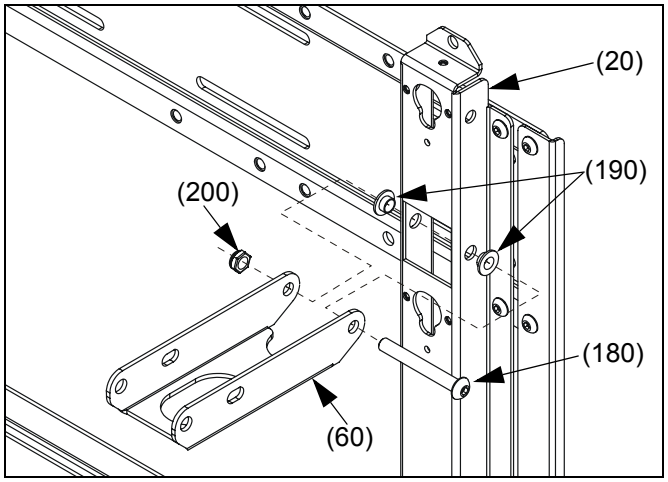



**Figure 15: Attach Tilt Support Arm**

2. Insert clevis pin (160) through arm (30), spacer (210), bracket (20), spacer (210), and arm (30). Install cotter pin (230) (See Figure 16).

**NOTE:** Spacers (210) are nested between bracket (20) and arm (30).

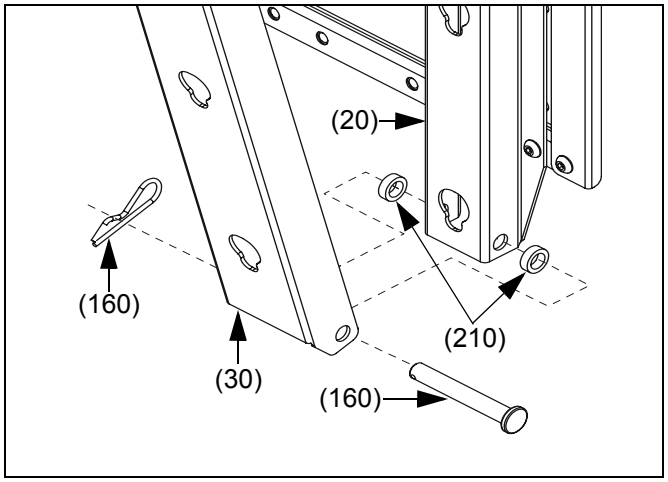



**Figure 16: Attach Lower Tilt Arm**

3. Determine amount of tilt desired. Positive tilt arm locking holes exist in arm (30) at 0° (no tilt), 5°, 10°, and 15° (See Figure 17).

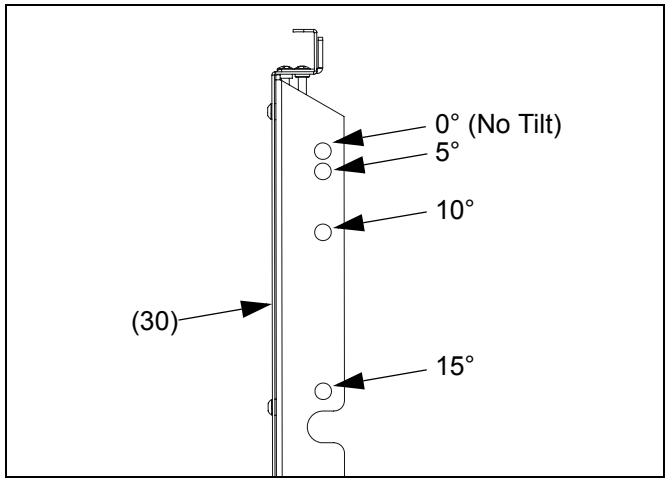



**Figure 17: Tilt Arm Adjustment**

4. Insert clevis pin (170) through arm (30) at desired locking hole, washer (190), arm (60), washer (190), and arm (30). Install cotter pin (220)(See Figure 18).

**NOTE:** Washers (190) are nested between arm (30) and arm (60).

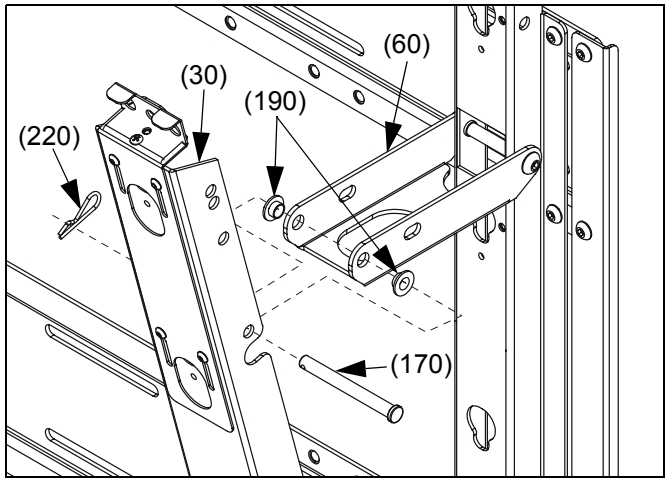



**Figure 18: Attach Upper Tilt Arm**

## INSTALL DISPLAY

**WARNING:** Display is very heavy! Ensure display can be safely lifted and maneuvered as required to install on mount. Failure to take adequate precautions can result in serious personal injury or damage to equipment!

1. Ensure latches (50) are in fully open (raised) positions (See Figure 7).
2. Note button openings to be used on each arm (30) when installing display (See Figure 19).

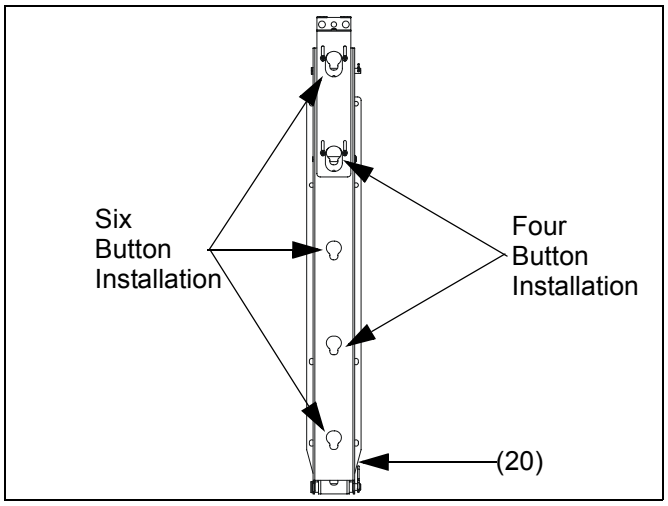



**Figure 19: Mounting Holes**

3. Lift and maneuver display such that all buttons (110) fit into button openings on arms (30). Lower display firmly into place. Ensure each button (110) has fully seated in its button opening.
4. Using Phillips screwdriver, tighten screw (90) until latch (50) slides into closed position (See Figure 20).

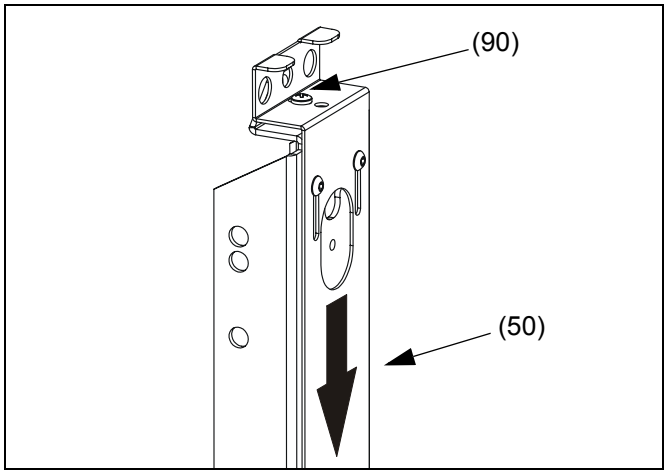



**Figure 20: Closed Latch**

5. Repeat for second latch (50).
6. Connect cables to display as required.

## REMOVE DISPLAY

**WARNING:** Display is very heavy! Ensure display can be safely lifted and maneuvered as required to remove from mount. Failure to take adequate precautions can result in serious personal injury or damage to equipment!

1. Disconnect all cables from display.
2. Using Phillips screwdriver, fully remove screw (90) from threaded hole in bracket (30) (See Figure 7).
3. Re-install screw (90) into threaded hole in *latch* (50). Turn screw (90) until latch (50) slides into fully open position.
4. Repeat for second latch (50).
5. Lift and maneuver display mounting buttons (110) out of button openings.

## ADJUST DISPLAY TILT

**NOTE:** Depending on the degree of tilt desired, it may be necessary to remove the display from the mount *prior* to making tilt adjustments. See "Remove Display" above.

1. While supporting display, remove cotter pin (220) and clevis pin (170) (See Figure 18).
2. Move arm (60) to desired locking hole in arm (30) (See Figure 17).
3. Re-insert clevis pin (170) through arm (30), washer (190), arm (60) at desired locking hole, washer (190), and arm (30). Install cotter pin (220)(See Figure 18).